

UF300G ~ UF306G

GLASS PASSIVATED JUNCTION ULTRAFAST SWITCHING RECTIFIERS

VOLTAGE 50 to 600 Volts **CURRENT** 3.0 Amperes

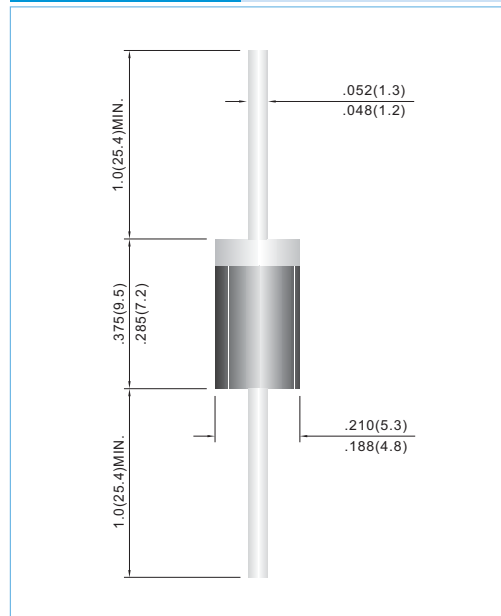
DO-201AD Unit: inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228.
- Ultra Fast switching for high efficiency.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded plastic, DO-201AD
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Band denotes cathode
- Mounting Position: Any
- Weight: 0.0395 ounce, 1.122 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	UF300G	UF301G	UF302G	UF304G	UF306G	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =55°C	I _{F(AV)}	3.0					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	150					A
Maximum Forward Voltage at 3.0A	V _F	1.0			1.3	1.7	V
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =125°C	I _R	1.0 300					μA
Typical Junction capacitance (Note 1)	C _J	75			50		pF
Typical Thermal Resistance(Note 2)	R _{θJA}	30					°C / W
Maximum Reverse Recovery Time (Note 3)	t _{rr}	50				100	ns
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150					°C

NOTES:

- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- Thermal Resistance from Junction to Ambient and from Junction to lead length 0.375" (9.5mm) P.C.B. mounted.
- Reverse Recovery Time $I_F=5A$, $I_R=1A$, $I_{rr}=25A$

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RATING AND CHARACTERISTIC CURVES

